

ORGANIZATION MISSION AND FUNCTIONS

9 JUNE 1986

**U.S. ARMY
MISSILE AND SPACE INTELLIGENCE CENTER
REDSTONE ARSENAL, ALABAMA**

U.S. ARMY MISSILE AND SPACE INTELLIGENCE CENTER
Redstone Arsenal, Alabama 35898-5500

9 June 1986

Organization and Functions

ORGANIZATION, MISSION, AND FUNCTIONS OF THE
U.S. ARMY MISSILE AND SPACE INTELLIGENCE CENTER

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PART ONE
INTRODUCTION

SECTION I

GENERAL

1. Purpose. This document prescribes the official organization, missions, and functions of all authorized organizational elements of the U.S. Army Missile and Space Intelligence Center (MSIC).

2. Policy. a. This document will be the only basis within MSIC for effecting official actions relating to personnel surveys, assignment of tasks, distribution of functions, assignment of organizational titles, and similar actions, and will conform to the organizational alignment and titles reflected in the approved Table of Distribution and Allowances (TDA).

b. Proposed changes will be processed through the Program and Production Control Branch, Program Management and Support Office.

SECTION II

HISTORY

U.S. ARMY MISSILE AND SPACE INTELLIGENCE CENTER

In April, 1950, the Army's rocket experts who had been working at Fort Bliss, Texas, were moved to Redstone Arsenal, Alabama. Redstone Arsenal soon became the nerve center for the Army's rocket and guided missile programs. The Army Ballistic Missile Agency (ABMA) was established on 1 February 1956 to manage the JUPITER program. The ABMA Commander recognized the critical importance of foreign technical intelligence to his operations and established a Special Security Office in June 1956 to obtain missile and space intelligence. To analyze this data and report to him on foreign activities, he established the Technical Intelligence Division, Assistant Chief of Staff for Research and Development, ABMA, staffed with six engineers and intelligence analysts. The first U.S. satellite, EXPLORER I, resulted from the JUPITER program which was supported by foreign intelligence supplied by this nucleus intelligence group.

The Army Ordnance Missile Command (AOMC) was established on 31 March 1958, consolidating under one commander all Army activities at Redstone Arsenal: ABMA, the newly established Army Rocket and Guided Missile Agency, and Redstone Arsenal. The Ordnance Guided Missile School was not included in the consolidation, but remained a tenant on the installation. Under AOMC, the small intelligence activity, now approximately 50 people, was reorganized as an element of the headquarters staff and, on 31 March 1960, was redesignated the Assistant Chief of Staff for Missile Intelligence.

In 1962, AOMC phased into the U.S. Army Missile Command (MICOM) as a major subordinate command of the newly created U.S. Army Materiel Command, and the intelligence activity, now totalling 75 employees, was reorganized and redesignated the Directorate of Missile Intelligence, effective 1 August 1962.

During these early years the missile intelligence element was oriented principally to the analysis of foreign offensive missile and space systems; however, operations encompassed such areas of interest as Army tasking might require. Analysts maintained an awareness of MICOM needs by close liaison with the R&D community and directed their efforts toward specific MICOM requirements. As examples, the NIKE ZEUS project was able to react immediately to any new information regarding Soviet ICBM tests, and during the Cuban missile crisis, Missile Intelligence Directorate personnel played a substantial role as participants and advisors providing support to national defense planners.

On 1 August 1961, the Defense Intelligence Agency (DIA) was established to provide and disseminate defense intelligence to satisfy the intelligence requirements of the Secretary of Defense, Joint Chiefs of Staff, and major components of the Department of Defense (DoD). The directive also required DIA to conduct such technical intelligence functions which would be subsequently assigned.

DoD Directive 5105.28, 1 December 1962, established a management arrangement for DoD technical intelligence activities and specifically authorized the Director, DIA, to establish and promulgate any administrative and management systems, methods, and procedures necessary to achieve the objectives of the directive. The directive also:

1. Identified all existing assets in DoD R&D organizations and in other DoD commands or agencies used for collection or production of technical intelligence (e.g., MIA) as DoD technical intelligence assets to be used to implement the program.

2. Directed the DIA to take over existing qualified organizations and their assets (contracts, funds, facilities, equipment, personnel authorizations, and civilian personnel) to discharge the responsibilities assigned, in order to minimize duplication of effort and resources.

To implement the directive, representatives from DIA visited MIA in midyear 1964 to discuss reorientation of the MIA mission and the preliminary concept for management of the production elements in the Military Departments. Joint meetings were held with the other production elements and with the Intelligence Chiefs of the Military Departments. MIA submitted its first input to the General Defense Intelligence Program in January 1965, presenting a plan for phased growth over a five year period in order to assume the national mission workload. The agency operated under its first DIA formal production schedule during fiscal year 1966.

On 1 April 1967, DIA issued DIA Manual 75-1, "Scientific and Technical Intelligence Production," which specifically identified MIA as one of the six major scientific and technical intelligence (S&TI) production elements to comprising the DIA S&TI structure. The manual also provided S&TI procedural guidance for production of technical intelligence, recognizing the necessity for allocation of a portion of the resources of the production elements to meet the direct support requirements of the Military Departments.

Under DIA management, MIA was assigned primary responsibility for production of technical intelligence covering foreign SRBM systems, ground systems, and defensive missile systems (ABM and SAM), with related RDT&E activities, technology, support, and command, control, and communications. MIA was also assigned supporting responsibilities in space activities, ballistic missile systems, and aerodynamic systems. Other tasks were assigned by the DIA, DoD, Army, and the other Military Departments in the form of unscheduled Quick Reaction Tasks or Departmental Tasks.

Whereas MIA had previously been oriented to production of offensive missile and space intelligence, the assignment of the DIA mission to produce defensive missile systems intelligence represented a complete mission reorientation which required retraining personnel, recruiting certain new skills, and acquiring new data bases to meet the workload requirements of the national mission. The assumption of national mission responsibilities also required a phased expansion of authorized manpower, supplemented by external assistance contracts.

To facilitate various actions associated with the development of capabilities to assume the national mission, Headquarters, AMC identified the

Missile Intelligence Directorate (the designation at that time) as a special intelligence activity located at MICOM, assigned the organization a unique Table of Distribution and Allowances (TDA) Unit Identification Code (W2USAA), and redesignated the element as the Missile Intelligence Agency, effective 30 September 1970.

Under the management control established by the Defense Intelligence system, the service S&TI production elements had de facto status as the six major subordinate organizations which constituted the S&TI production capability of the DIA. The six production elements were:

1. Deputy Director for Scientific and Technical Intelligence (DIA-DT), Defense Intelligence Agency.

2. U.S. Army Foreign Science and Technology Center (FSTC), U.S. Army Materiel Development and Readiness Command, Department of the Army.

3. U.S. Army Missile Intelligence Agency (MIA), U.S. Army Missile R&D Command, U.S. Army Materiel Development and Readiness Command, Department of the Army.

4. U.S. Army Medical Intelligence and Information Agency (MIIA), Office of the Surgeon General, Department of the Army.

5. Naval Intelligence Support Center (NISC), Naval Intelligence Command, Department of the Navy.

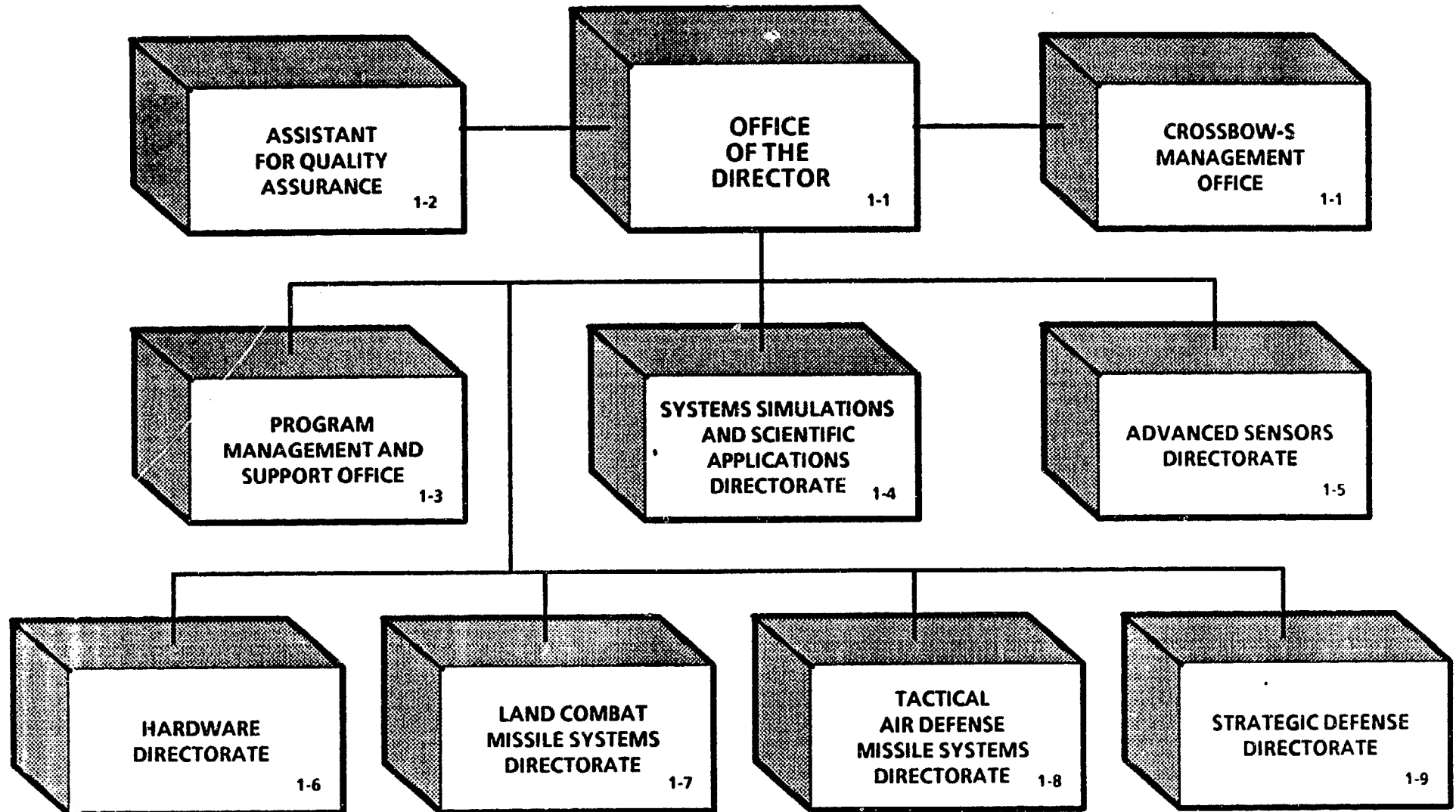
6. Foreign Technology Division (FTD), Air Force Systems Command, Department of the Air Force.

These six organizations continue to collectively constitute the DIA S&TI production capability; however, FSTC and MIA have been transferred to the U.S. Army Intelligence Agency (AIA) and MIIA has been redesignated the Armed Forces Medical Intelligence Center, Office of the Surgeon General.

Effective 30 April 1985, AIA, a field operating agency of the Assistant Chief of Staff for Intelligence, Department of the Army, assumed command of MIA. FSTC and the Intelligence Threat Analysis Center, formerly assigned to AMC and INSCOM, respectively, were also transferred to AIA.

On 1 August 1985, MIA was redesignated the U.S. Army Missile and Space Intelligence Center (MSIC). The mission of the organization was unchanged.

U.S. ARMY MISSILE AND SPACE INTELLIGENCE CENTER



U.S. ARMY
MISSILE AND SPACE INTELLIGENCE CENTER

1-1. U.S. ARMY MISSILE AND SPACE INTELLIGENCE CENTER (USAMSIC).

a. MISSION.

To accomplish the following as a major producer of Scientific and Technical Intelligence (S&TI) under the general management of the Defense Intelligence Agency (DIA):

(1) To plan, organize, coordinate, and control the acquisition, production, maintenance, and dissemination of S&TI as pertains to DOD-assigned missile and space weapon systems, subsystems, components, and activities, related sciences and technologies, and state of the art, representing the primary mission responsibility thereof within the DOD. Accomplish supporting and coordinating responsibilities in designated areas of missile and space intelligence production, as programmed by the DIA in areas of responsibility assigned to the Departments of the Navy and the Air Force.

(2) To advise and assist the Commander, U.S. Army Intelligence Agency (AIA) in the development of DA missile and space S&TI position and in the presentation of this position to the intelligence community, and, as required, to the higher echelons of the Army and the DOD. To acquire, produce, maintain, and disseminate S&TI, as tasked, to satisfy Departmental Foreign Intelligence Production Requirements (FIPR) unique to the Army.

(3) To advise and assist the DIA/DOD in the development of DOD intelligence position and in the formulation of National Intelligence Estimates (NIE) through designated or, as authorized, direct channels.

(4) To provide executive management over the Foreign Materiel Exploitation (FME) projects identified with the intelligence production responsibilities of the MSIC (test and evaluation).

(5) To provide S&TI and other foreign intelligence support required to respond to tasking of Foreign Intelligence Offices (FIO) for the acquisition, production, maintenance, and dissemination of intelligence.

b. DIRECTOR FUNCTIONS.

(1) Insure that Center operations are in compliance with legal and regulatory requirements.

(2) Serve as the principal advisor, coordinator, and action officer in scientific, engineering, and related technical matters in liaison with the national intelligence structure. Serve as the Army member, as designated, on specific intelligence committees, panels, and working groups.

(3) In the role of Director, U.S. Army Missile and Space Intelligence Center, advise and assist the Commander, U.S. Army Missile Command (MICOM), the Commander, U.S. Army Ballistic Missile Defense Systems

Command, and Commanders of tenant activities on Redstone Arsenal in all matters pertaining to missile and space S&TI, Intelligence Data Handling Systems (IDHS), and foreign operations affecting or having effect on assigned missions.

(4) Serve as the Activity Career Program Manager for the Army Civilian Career Program for Intelligence and the DOD-Wide General Intelligence Career Development Program.

c. DEPUTY DIRECTOR FUNCTIONS.

Serve as the Deputy Director to provide continuity of operations, acting for and serving as Director in his absence.

d. ASSISTANT FOR QUALITY ASSURANCE FUNCTIONS.

(1) Manage the technical quality assurance program for all MSIC products through review of data utilization, technique applied, in-process and final quality reviews and customer responses.

(2) Review data requirements and coordinate Center statements of need for new or improved collection systems to support analytical requirements.

(3) Serve as the principal technical authority on all aspects of the MSIC analytical program leading to the production of finished intelligence.

1-2. CROSSBOW-S MANAGEMENT OFFICE

a. MISSION

To coordinate the Tri-Service development of Foreign Threat Hardware Simulators to be used for operational testing, developmental testing, and training associated with U.S. Air-Breathing Systems and their associated electronic countermeasures equipment. To develop an Integrated Program Plan (IPP) for the Joint Executive Committee on Air Defense Threat Simulators (EXCOM) within the Office of the Secretary of Defense in order to identify duplication of effort among the services by coordinating common threat hardware simulator requirements and developing a lead service plan for multiple simulator acquisitions. To prioritize requirements for Integrated Technical Evaluations and Analysis of Multiple Sources (ITEAMS) to develop the comprehensive intelligence data bases required for threat simulator developments. To conduct technical workshops on technologies or unique technical approaches that are associated with threat systems in order to reduce the risk, cost, and/or lead time associated with the development of hardware simulators. To plan, implement, and technically direct the development of surrogate systems to be used in near term in place of threat simulators by identifying the potential surrogates, modifying as required, and conducting the initial field testing for validation of the surrogate and collection of phenomenology data.

b. FUNCTIONS

(1) Produce the IPP and other technical reports to support the Joint Executive Committee on Air Defense Threat Simulators within the Office of the Secretary of Defense.

(2) Retain Tri-Service awareness of all activities in Department of Defense threat simulator developments.

(3) Provide a forum for the discussion of the latest S&TI estimates and EW requirements among the representatives of the operational test and training community, members of the EW development and hardware simulation communities and members of the intelligence community.

(4) Coordinate common Tri-Service threat simulator requirements to identify duplication of effort.

(5) Conduct technical investigations per EXCOM guidance.

(6) Represent the Office of the Under Secretary of Defense Research and Engineering, by providing joint service program coordination of Defense threat simulator developments.

(7) Sponsor technical conferences on threat systems and hardware simulator programs as required.

(8) Participate in all Defense FME programs to insure that available threat technology is incorporated into threat simulator development.

(9) Compare the DIA approved-intelligence assessment data base with hardware simulator designs.

(10) Review ITEAMS resource plans and recommend OSD funding augmentation if required. Review the results of ITEAMS for depth of technical design necessary to support hardware development.

(11) Coordinate or direct, as appropriate, technical workshops on unique approaches used in threat systems which analyze and breadboard/brassboard these techniques.

(12) Coordinate or direct, as appropriate, the acquisition, modification, and field testing of Free World systems to serve as surrogates of threat systems in the near term prior to the acquisition of hardware simulators.

1-3. PROGRAM MANAGEMENT AND SUPPORT OFFICE.

a. MISSION.

To accomplish the financial management, manpower management, intelligence production scheduling, external assistance, review and analysis, mobilization and emergency operations planning, procurement and contracting, management improvement, personnel management, space management, property accountability, security, training, protocol, visitors control, mail and

records, travel, editorial, graphic arts, printing, photographic, records management, reports and forms control, and safety functions for the Center. Serve as focal point for coordination and input data pertaining to control of personnel action requests, implementation of Equal Employment Opportunity, Upward Mobility, intern training and similar programs. Develop and administer the Security Program for MSIC. Interpret and advise all operating elements on security regulations pertaining to classified material, to include control and administration of SI/SAO data and special compartmented access, physical security, personnel security, industrial security, and visitors control. Coordinate with the Special Security Office and the Security Directorate, MICOM. Provide an Activity Career Program Assistant to administer the Intelligence Career Development Program (ICDP).

b. PROGRAM AND PRODUCTION CONTROL BRANCH FUNCTIONS.

(1) Plan, program, prepare, and produce manpower, budgetary (OMA, RDT&E, PEMA) and external assistance requirements to accomplish DOD and Army Scientific and Technical Intelligence (S&TI) production.

(2) Perform continuing manpower management planning and operations to effect optimum utilization of manpower resources. Includes TDA management and preparation of Center mission and function and statements.

(3) Provide central management and control for all intelligence production activities.

(4) Prepare, process, and administratively manage intelligence external assistance requirements.

(5) Perform financial management operations necessary to control all Center expenditures.

(6) Formulate, direct, and monitor the MSIC Management Information System (MSICMIS).

(7) Perform continuing review and analysis of the MSIC mission accomplishment, effectiveness of operations, resource requirements, allocations, and utilization.

(8) Implement and administer the Center programs of work measurement, management improvement, management by objectives, decentralized management, procedural development and standardization, and directives management.

(9) Perform mobilization and emergency operations planning in coordination with the DA Special Security Office to insure continuity of operations, reconstitution of mission, and capability to assume wartime mission. Formulate wartime mission support tasking for the Special Security Office.

(10) Formulate and manage support agreements.

(11) Provide focal point for maintenance of records and for coordination of various surveys, inspections and audits in the area of

financial management, manpower management, intelligence production, external assistance and procurement and contracting.

(12) Provide budgeting, contractual and S&TI tasking support to the MICOM FIO.

(13) Serve as agency focal point for identification and arrangement of visitors requirements. Advise and assist Center elements relative to visitor control and protocol activities. Establish and maintain liaison with higher authority and other Government agencies regarding visits to MSIC. Monitor and coordinate visits of foreign nationals.

c. ADMINISTRATIVE SERVICES BRANCH FUNCTIONS.

(1) Provide Center focal point for the coordination, operation, and staff management for all personnel management activities. Includes actions to develop and maintain a skilled work force, e.g., recruitment and placement, job evaluation and pay administration, incentive awards, employee relations and morale, performance appraisals, training, career development, and equal employment opportunity.

(2) Provide space management operations to insure the provision of adequate physical facilities. Includes analysis and determination of specifications for janitorial services and repair and maintenance services.

(3) Provide an MSIC Property Book Officer. Provide supply and equipment support to MSIC and to the DA Special Security Officer (SSO) by initiation and control of requisitions, work orders, job orders, maintenance of property book, and development of the Equipment Section for the Center Table of Distribution and Allowances (TDA).

(4) Manage Center travel function, to include clerical training. Arrange for classified shipments and courier flights, with emphasis on compliance with SSO regulatory requirements, as applicable.

(5) Provide administrative support services to the SSO, as defined in Command Support Agreement, implementing the provisions of AR 380-28.

(6) Operate the MSIC Mail Room for receipt and dissemination of all non-SSO documentary communications.

(7) Administer the records, correspondence, reports and forms management programs for the Center. Administer the actions incident to the safety program.

(8) Provide focal point for maintenance of records and for coordination of various surveys, inspection and audits in the areas of personnel management, space management, property accountability, security training, safety, and records management.

(9) Provide communications, facilities, transportation, travel, training and security support to the MICOM FIO.

d. VISUAL ARTS AND EDITORIAL BRANCH FUNCTIONS.

- (1) Perform intermediate and final editing of all MSIC reports.
- (2) Assist authors in development of reports including advising on the use of illustrations.
- (3) Develop guidelines for the preparation of reports and presentations, incorporating Defense Intelligence Agency (DIA) guidelines as applicable.
- (4) Provide centralized word processing and preparation of camera ready copy.
- (5) Conduct graphic analysis of special intelligence data including the analysis of drawings of foreign missile systems and components.
- (6) Perform photographic interpretation as required to develop illustrations, concepts and engineering drawings.
- (7) Prepare camera ready artwork for use in reports and presentations.
- (8) Provide printing, collating, and binding of SI/SAO reports, and coordinate the reproduction of other documents with RSA Reproduction.
- (9) Prepare B&W and color photographic products as required in support of the MSIC mission, and as requested by other agencies within the intelligence community.
- (10) Prepare microfiche in support of the MSIC mission and for other members of the intelligence community as requested.
- (11) Maintain complete Center visual material and publication files.

e. SECURITY BRANCH FUNCTIONS

- (1) Direct and implement MSIC personnel security, domestic intelligence, foreign national security, industrial security, and communications programs. Provide all administrative and management security services and equipment to support MSIC.
- (2) Initiate procedures, monitor, and supervise programs for safeguarding classified defense information, sensitive intelligence source data and sensitive compartmented information.
- (3) Provide identification badges and maintain records on all personnel assigned to MSIC or authorized unrestricted access to MSIC facilities.
- (4) Initiate procedures for assuring that all personnel who handle classified defense information are appropriately instructed and cleared. Conduct and maintain the SCI access program, billet structure and security program for all assigned personnel.

(5) Register and maintain records on all electronic, photographic or recording equipment authorized to enter and leave buildings 4505, 4498 and the GOCO facility.

(6) Regulate, release and distribute classified information to accredited foreign nations, and monitor visits of such persons.

(7) Coordinate all visits of the center personnel to Nuclear Regulatory Agency Facilities.

(8) Plan and implement comprehensive physical security protective systems which provide maximum security for the protection of defense information, intelligence source data and sensitive compartmented information.

(9) Advise the command group, Facilities Engineering Division and others on security aspects of proposed buildings and facilities. Conduct preconstruction studies and validation. Initiate SCIF accreditation upon completion of building construction.

(10) Conduct security education programs for special compartmented information, collateral security and special projects throughout the Center.

(11) Provide industrial security support for MSIC Contracting Officers Representatives, assist contractor liaison representatives, the U.S. Army Special Security Office and the MSIC GOCO facility.

(12) Operate a reception center for all official visitors to MSIC (Building 4505), the Hardware Directorate (Building 4497), and the GOCO facility.

(13) Design and monitor the installation, maintenance and operation of electronic security systems used for the protection of defense information and sensitive compartmented information. Devise new or novel measures to protect information for which standardized systems or methods are inadequate.

(14) Conduct security surveys, inspections, and unannounced security checks of the Center, Hardware Directorate, and GOCO facility to determine the effectiveness of the systems, devices, procedures, and methods used. Methods used should stimulate the development and continuation of security consciousness and the effective application of security procedures by operating officials and employees.

(15) Operate the center lock and key system, including the issue, control, and return to security locks, keys and combinations.

(16) Provide on-site security support to detached elements of the center by establishment of manned offices where appropriate.

(17) Direct the Security Classification Management Program, monitoring security classification on weapon systems and intelligence data over which the Center has control. Assist in the preparation and monitoring

of Contract Security Classification Specifications (DD Form 254); providing guidance to the Center contractors involved in classified contracts.

(18) Responsible to the National Security Agency, Defense Intelligence Agency and the Central Intelligence Agency for the direction, supervision and control of the SCI decompartmentation program for Signals Intelligence (SIGINT), Human Intelligence (HUMINT), and Photographic Intelligence (PHOTINT).

(19) Conduct preliminary inquiry, and initiate formal investigation in cases involving possible compromise of classified defense information. Prepare, evaluate and submit serious security violation reports to national intelligence discipline managers as appropriate.

(20) Direct the Operations Security Program (OPSEC) for the Center and its supported elements including contractor facilities and GOCO facility. Conduct Operations Security Surveys, Threat Analyses, determine vulnerabilities, and recommend appropriate countermeasures. Conduct OPSEC training.

(21) Conduct intelligence activities and studies in conjunction with INSCOM Special Programs.

(22) Direct the Center's program for the establishment and enforcement of restricted areas.

(23) Coordinate Crime Prevention Programs supported by MICOM within the center.

1-4. SYSTEMS SIMULATIONS AND SCIENTIFIC APPLICATIONS DIRECTORATE.

a. MISSION.

To provide data processing and scientific and technical computational support to all elements of MSIC. This support will include development and use of computational models, simulations, and data processing and analysis systems.

b. FUNCTIONS.

(1) Manage the design, development, and application of sophisticated scientific and technical computational models, systems and subsystem simulations, and data processing and analysis systems.

(2) Manage the R&D efforts necessary to maintain a state of the art capability in scientific computational techniques in support of the analytical mission of the Center.

(3) Assure the development and application of adequate digital data processing capability to support the data base requirements of the Center, and to provide the capability to manipulate this data base in the manner required by various analytical elements within the organization.

- (4) Provide advisors and consultants within the Center regarding the application of computer science to the solution of analytical problems.
- (5) Develop, coordinate, and submit requirements and recommend development efforts related to areas of responsibility.
- (6) Provide participating and consulting members for committees, panels, boards, and working groups at local, national, and international levels.
- (7) Develop, direct, and maintain resources to provide scientific programming support for digital, analog, hybrid, and signal processing equipment in support of all elements of the Center.
- (8) Develop or participate in development, documentation, and maintenance of all scientific computer simulations and computational techniques in area of basic missile technology, such as aerodynamics, propulsion, guidance and control, statistics, electronics and light mechanics.
- (9) Design computer programs/systems for storage, retrieval, maintenance, reduction, and display of the S&TI data base required to accomplish S&TI research, analysis, evaluation and production and provide ADP services necessary to implement the systems.
- (10) Adapt, maintain, and modify the digital computer operating system software used with the MSIC digital computer equipment. Operate and maintain all computer and peripheral equipment within the MSIC facility.
- (11) Design, develop, operate, and maintain digital, analog, hybrid and signal processing support for all elements of the Center.
- (12) Fulfill the scientific computer production requirements of MSIC using in-house digital, analog or hybrid systems or external computer facilities, as necessary.
- (13) Provide technical expertise to assist both internal and external users in the design, development, and the use of subsystem or system models in the conduct of various studies and tests.
- (14) Provide the technical expertise to design and develop the application software to support the S&TI analysts in maintaining and using data bases in S&TI research projects, trends analysis, and forecasting.
- (15) Provide the technical expertise to maintain technical data bases in support of both internal S&TI users and external users. Maintenance will include collection, insertions, quality control, and security management of the automated data bases.
- (16) Provide the technical expertise to design, develop, and support special purpose applications for analyst work stations, special displays, word processing, and special graphics systems.

(17) Manage the interface between external users and the MSIC computer system. Assure security control of interface at all times, assure the coordination with appropriate, cognizant systems analyst, and assure tests conducted by external analysts utilize current systems models as well as systems parametric definitions.

1-5. ADVANCED SENSORS DIRECTORATE.

a. MISSION.

To manage a program to acquire, analyze, and store electromagnetic, Human Intelligence (HUMINT), Signals Intelligence (SIGINT), Photographic Intelligence (PHOTINT), and other non-collateral data in support of the scientific and technical intelligence analyses processes of MSIC. Design, develop, operate, and maintain electromagnetic, PHOTINT, and other data processing and analysis equipment. To acquire intelligence publications and maintain and operate the Center technical intelligence publications library through an integrated information service system to satisfy agency, local commands and accredited contractor intelligence data base reference requirements. To integrate Center intelligence holdings into a control and accountability system; coordinate and provide Center actions to identify intelligence requirements and to obtain publications to fill gaps in the Center holdings. To provide management for scientific and technical (S&TI) library services to analysts, scientists, and engineers for the production of intelligence products and to users from military research and engineering components to include the U.S. Army Missile Command (MICOM), Ballistic Missile Defense Systems Command, Ballistic Missile Defense Advanced Technology Center, Marshall Space Flight Center, U.S. Army Missile and Munitions Center and School and to eligible contractors serving these organizations. Provide S&TI and other foreign intelligence support required to respond to tasking of Foreign Intelligence Offices (FIO) for the acquisition, production, maintenance, and dissemination of intelligence data required to support MICOM and Army Materiel Command (AMC) missions. Services, on both an Army wide and national scale, are also provided in response to requirements from Army Agencies, Defense Intelligence Agency, and other Department of Defense organizations. Responsibilities include planning, coordinating, and controlling the selection, acquisition, processing, storage, retrieval, maintenance, research, analysis, and dissemination of scientific and technical intelligence data as related to the Army's sphere of interest in missiles and space weapon systems, subsystems, components, related science and technology activities, and state-of-the-art.

b. FUNCTIONS.

(1) Manage a program to formulate and execute a continuing survey of intelligence data requirements in SIGINT, HUMINT, PHOTINT, and other electromagnetic intelligence data sources.

(2) Provide the operational interface between the technical intelligence program and those collection programs designed to obtain information and technical data required for system/subsystem/technology analyses. Periodically develop substantive technical exchanges for collection agencies which depict Center utilization of data and critical intelligence gaps. Recommend engineering and operational changes in

collection equipment, technologies, or procedures as appropriate to the filling of intelligence gaps.

(3) Develop and pursue an active engineering and indepth analysis program of single and multiple data base holdings in support of system, subsystem, and technology analyses and feedback to collectors on data quality and new or additional requirements. Identify, analyze, and define new and unusual data activity, in areas of Center responsibility, to determine source and meaning.

(4) Develop and present imagery information in a form suitable for use in publications, briefing documents, visual aids and other communication media.

(5) Provide MSIC participation as a member or consultant to committees, panels, working groups at the local, national and international levels.

(6) Supervise Center liaison personnel and activities at other DOD and/or national agencies.

(7) Serve as the cognizant element within MSIC for data bases (except library) and as the focal point for external programs related to data base integration and automated data transfer.

(8) Execute a continuing analysis of new and first events of missile weapon activity in MSIC mission areas. Review and evaluate the quality of source material.

(9) Provide technical advice and support to production elements of MSIC in the use of the diversified data in the analysis process.

(10) Perform the quality control and periodic updating and review of the Electronic Warfare Integrated Reprogrammable System (EWIRS) and KILTING data bases.

(11) Perform engineering analysis of sensor data to satisfy SAE production requirement. Perform quality control review and distribution of resulting Technical Electronic Intelligence (ELINT) reports.

(12) Manage the design, development, and implementation of electromagnetic data screening, processing and display techniques in support of subsystem and system analyses.

(13) Maintain analytical and computational techniques for reduction of electromagnetic sensor data to support subsystem and system analyses.

(14) Manage the research and development efforts necessary to maintain state of the art capabilities for processing, reducing, and analyzing electromagnetic and other data to support subsystem, system and collection analyses.

(15) Acquire and maintain adequate electromagnetic data processing capabilities to support the data base and analytical requirements of the

Center and to provide man and machine capabilities to manipulate and analyze the data to support various subsystem and system requirements within the Center.

(16) Participate in the development and documentation of computer software application to electromagnetic signal analysis processes to support subsystem and system analyses.

(17) Design, develop, operate, and maintain signal processing support for all elements of MSIC.

(18) Develop and pursue an active analysis program covering foreign technology, utilizing both the theoretical and empirical techniques. Such studies involve areas of interest such as radar cross section, signatures, infrared and visible radiations, optical equipment related to foreign missiles, rockets, and space activities, on-board telemetry measurement programs, telemetry and ELINT signals, external, and internal analysis, etc.

(19) Support the Program Manager for Intelligence Data Handling System (IDHS) to insure resource audit is performed to maintain integrity of IDHS program resources which are utilized to perform indepth engineering analyses in support of subsystem, system, and collection requirements.

(20) Provide an effective and reliable data system which will optimize MSIC tasked S&TI production efforts.

(21) Integrate all classification levels of MSIC documentation holdings, including special compartmented information (SCI), into an automated storage, retrieval, and accountable system.

(22) Interpret and assure adherence to regulations, policies, and directives governing the safeguarding of classified, restricted, and special categorized data.

(23) Plan, establish, manage, and direct necessary functions for effective data flow in the library system.

(24) Direct the establishment and analytical consolidation of the Statement of Intelligence Interest (SII) which substantiates MSIC requirements for automatic dissemination of S&TI documentation from DIA and includes varied formats of finished reports and raw data as well as very specialized esoteric and sensitive data from unique and routine overt and covert collectors; also provides interpretation and guidance to MSIC patrons in the assessment of these requirements and makes recommendations concerning priorities.

(25) Execute a continuing critical survey of intelligence publications and open literature data requirements and make changes or upgrades in data collections, equipment, techniques, procedures, or policies as appropriate to support the filling of intelligence gaps.

(26) Manage a program within MSIC to provide centralized acquisitioning, receipt, analysis, reporting and dissemination of all source, all classification documentation.

(27) Coordinate user's reference, research, or analytical needs and plan scope and intensity of requirements; provide in-depth reference and analytical data research; exploit various data sources; formulate appropriate queries and/or retrospective literature searches; initiate calls, letters, and/or messages as required; review reference feedback and initiate action to obtain pertinent documentation; analytically review documentation for specific data; synthesize essential data and interface with analysts.

(28) Upgrade S&TI data processing capabilities and promote interface capabilities to effectively integrate and exploit products from national and international data systems; also participate in the development, modernization, and cross utilization of data networks within the DoD data storage and retrieval services as well as commercial retrieval services.

(29) Maintain a residual stock of MSIC publications to meet dissemination requirements subsequent to initial distribution and maintain a record copy of all MSIC publications.

(30) Arrange for translation of foreign language documents. Manage efforts relative to MSIC's responsibility in the Department of Defense Scientific and Technical Intelligence Information Services Program (DoD STIISP) of which the Central Information Reference and Control (CIRC II) system is a prime element. This DoD automated foreign S&T data storage, retrieval, and research function provides a coordinated integrated system which supports the requirements of the DoD S&TI production organizations and other consumers throughout the DoD including those in Research and Development (R&D).

1-6. HARDWARE DIRECTORATE.

a. MISSION.

To provide hardware design, development, evaluation, exploitation, and scientific and technical support to all elements of MSIC. Support includes development and use of hardware breadboard/brassboard subsystem models, simulator systems, and exploitation, evaluation and assessment of foreign hardware.

b. FUNCTIONS.

(1) Manage the design, development, and implementation of hardware in support of S&TI requirements. Provide both hardware and instrumentation in support of system analysis requirements.

(2) Manage the design, development, and application of sophisticated scientific and technical hardware models, system and subsystem simulators, and the evaluation of foreign equipment systems.

(3) Plan, organize, direct and manage the technical aspects of the Army Development and Acquisition of Threat Simulators (ADATS) Program.

(4) Insure threat simulator validity relative to parent threat. Determine validation related requirements for development of contract scopes of work.

(5) Determine requirements, procure, calibrate, and operate validation test equipment and facilities. Generate and coordinate validation test schedules and prepare test plans. Conduct validation tests and prepare reports.

(6) Determine and coordinate requirements and provide instrumentation for the analysis of system performance during major test programs. Insure that simulators are maintained, supported, and available to participate in major test programs as required.

(7) Maintain accountability for all equipment. Assure property accounting procedures conform with regulations.

(8) Provide configuration management of all operational simulators. Determine need and incorporate major modifications to fielded simulators.

(9) Manage the research and development efforts necessary to maintain a state of the art capability in foreign hardware technology application techniques to support the analytical mission of the Center.

(10) Assure the development and application of adequate hardware and instrumentation capability to support the analysis and data base requirements of the Center. Evaluate hardware equipment as required by various Center analytical elements.

(11) Develop, coordinate, and submit requirements and recommended development efforts related to areas of responsibility.

(12) Provide participating and consulting members for committees, panels, boards, and working groups at local, national and international levels.

(13) Provide technical direction of Foreign Materiel Exploitation (FME) programs in areas of responsibility.

1-7. LAND COMBAT MISSILE SYSTEMS DIRECTORATE.

a. MISSION.

To provide National and Department of Defense users all-source scientific and technical intelligence concerning single and integrated Short Range Ballistic Missile (SRBM) and Antitank Guided Missile (ATGM) weapon systems. To provide Center and DA users with future weapon system concepts and applied technology projections in Land Combat systems and Defensive systems. To provide threat support to DA in the areas of projected Intercontinental Ballistic Missiles (ICBM) and Precision Guided Weapon (PGW) systems. To provide advice and consultation on matters pertaining to foreign Land Combat Missile Systems.

b. FUNCTIONS.

(1) Manage analytical efforts on systems and related subsystems as required in the development of timely and reliable S&TI on ATGM and PGW systems, and their command and control networks; interrelations and correlations between assigned weapon systems, and the vulnerabilities of systems elements in support of applicable DOD and national programs.

(2) Manage analytical efforts on ballistic missiles and rockets and related subsystems as required in the development of timely and reliable S&TI on assigned weapon systems and their command and control networks; interrelations and correlations between assigned weapon systems; and the vulnerabilities of systems elements in support of applicable DOD and national programs. Produce appropriate studies to disseminate information to customers.

(3) Manage analytical efforts on systems and related subsystems as required in the development of timely and reliable S&TI Trends and Forecasts on ATGM and SRBM systems and their command and control networks; interrelations and correlations between weapon systems; and the vulnerabilities of systems elements in support of applicable DOD and national programs.

(4) Design, develop, and maintain a comprehensive data base on foreign SRBMs, PGW systems and related sciences, technologies and R&D test activities. Analyze data base as required to support system analysis, subsystem analysis, historical analysis and trends and forecasts studies. Maintain a data base on parallel U.S. systems and technologies to be used in making mirror image assessments or projections.

(5) Assure S&TI support of those DOD primary missions assigned to the Air Force and Navy for which MSIC, by virtue of expertise, supporting mission assignments or information holdings has contributor responsibilities.

(6) Design, develop, and manage support tasking to Air Force and Navy and other Army production elements designated DOD support roles in the MSIC area of primary responsibility.

(7) Develop and manage a program for identifying and maintaining the technical requirements for collection and reporting of technical information on weapon systems and subsystems in the assigned areas of responsibility.

(8) Provide technical support to develop comprehensive threat inputs to all DOD RDT&E programs delineating technical characteristics of system, specific events or combinations thereof or specific items of systems having particular impact on U.S. programs.

(9) Manage the analysis of foreign missile research and development and operational and test programs and events in ATGM, PGW, and SRBM.

(10) Assure development and production of assessments to provide support to DA in areas of foreign antiarmor missiles and PGW systems, ballistic missiles, and associated technologies and for conducting trend studies in foreign defensive missile systems.

(11) Participate as member or consultant to intelligence committees, panels, and working groups at national and international levels.

(12) Manage the R&D efforts necessary to provide the analytical tools, techniques, and equipment necessary to support the analytical efforts required in performing the functions of the assigned missions.

(13) Manage the analytical efforts directed at evaluating existing and projected deployment and employment concepts in systems in the assigned mission areas.

(14) Manage the quick reaction and current reporting efforts in all assigned mission areas.

(15) Provide technical direction of FME programs in areas of responsibility.

1-8. TACTICAL AIR DEFENSE MISSILE SYSTEMS DIRECTORATE.

a. MISSION.

To provide national and international and DOD users all-source scientific and technical intelligence concerning single and integrated Tactical Air Defense weapons systems to include identification of projected systems and modifications. To determine foreign state of the art in Tactical weapon systems technologies; Command, Control and Communications (C3); R&D organizations; personalities; capabilities; and programs which can affect present or projected systems needed by Tactical Air Defense forces. To provide advice and consultation on matters pertaining to foreign Tactical Air Defense Systems.

b. FUNCTIONS.

(1) Design, develop, and manage a scientific and technical intelligence program to perform comprehensive analysis of assigned Long Range Tactical Air Defense weapon systems. System performance capabilities, limitations, and vulnerabilities will be assessed through in-depth analysis of subsystems (radar, electro-optical, missile, ground support equipment, etc.) using all-source intelligence data.

(2) Design, develop, and manage a scientific and technical intelligence program to perform comprehensive analysis of assigned Short Range Tactical Air Defense weapon systems. System performance capabilities, limitations, and vulnerabilities will be assessed through in-depth analysis of subsystems (radar, electro-optical, missile, ground support equipment, etc.) using all-source intelligence data.

(3) Design, develop, and manage a scientific and technical intelligence program to perform comprehensive analysis of assigned Electro-optical/Infrared Guided Tactical Air Defense weapon systems. Systems performance capabilities, limitations, and vulnerabilities will be assessed through in-depth analysis of subsystems (seekers, supporting radars, electro-

optical subsystems, control systems, missile subsystems, ground support equipment) using all-source intelligence data.

(4) Design, develop, and manage a scientific and technical intelligence program to synthesize and comprehensively analyze the command and control structure and networks that interface with Tactical Air Defense weapon systems and associated equipment to form integrated air defense organizations. Organizational capabilities, limitations, and vulnerabilities will be assessed via system integration analysis.

(5) Design, develop, and manage a scientific and technical intelligence program to synthesize and analyze the research, development, test, and evaluation efforts related to modified, new, or projected tactical air defense weapons.

(6) Manage analytical efforts on systems and related subsystems as required in the development of timely and reliable S&TI on assigned tactical defensive weapon systems and their command and control networks; interrelations between assigned weapon systems; and the vulnerabilities of systems elements in support of applicable DOD and national programs.

(7) Perform conceptual evaluations of foreign weapon system hardware design using experimental methods to satisfy information gaps in support of intelligence and R&D requirements.

(8) Design, develop, and maintain a comprehensive data base on assigned foreign test ranges and related R&D test activities. Analyze data base as required to support system analysis, subsystem analysis, historical analysis and trends studies. Maintain a data base on parallel U.S. systems and technologies to be used in making mirror image assessments or projections.

(9) Design, develop, and maintain a data base of operational indicators of organizational sensitivity to known, suspected, or likely system modifications for use in priorities and collection requirements.

(10) Assure S&TI support of those missions assigned to the Air Force and Navy for which MSIC has supporting responsibilities by virtue of expertise, supporting mission or information holdings.

(11) Design, develop, and manage support tasking to Air Force, Navy, and other Army production elements designated DOD support roles in the MSIC areas of primary responsibility.

(12) Develop and manage a program for identifying and maintaining the technical requirements for collection and reporting of technical information on weapon systems and subsystems in the assigned areas of responsibility. Provide technical support in the integration of technical requirements for data into the national program for collections and reporting and serve as advisor in the establishment of national priorities.

(13) Provide technical support to develop comprehensive threat inputs to all DOD RDT&E programs delineating technical characteristics of

systems, specific events or combinations thereof or specific items or systems having a particular impact on U.S. programs.

(14) Manage the analysis of foreign missile research and development and operational test programs and events in assigned mission areas.

(15) Participate as member or consultant to intelligence committees, panels, and working groups at national and international levels.

(16) Manage the research and development efforts necessary to provide the analytical tools, techniques, and equipment necessary to support the analytical efforts required in performing the functions of the assigned mission.

(17) Manage the analytical efforts directed at evaluating existing and projected deployment and employment concepts in systems in the assigned mission areas.

(18) Manage the quick reaction and current reporting efforts in all assigned mission areas.

(19) Provide technical direction of FME programs in areas of responsibility.

1-9. STRATEGIC DEFENSE DIRECTORATE.

a. MISSION.

To provide national and DOD users all-source scientific and technical intelligence concerning single and integrated Strategic Defensive weapon systems to include identification of projected system modifications. Mission includes both conventional and non-conventional systems for Ballistic Missile Defense, Space Defense, and Strategic Air Defense. To determine foreign state-of-the-art in Strategic Ballistic Missile Defense, Strategic Air Defense and Space Defense weapon system technologies; Command, Control, and Communications (C3); R&D organizations; personalities; technical industrial processes; capabilities; and programs which can affect present or projected systems needed by Strategic Defense forces. To provide advice and consultation on matters pertaining to foreign Strategic Ballistic Missile Defense, Space Defense and Air Defense Systems.

b. FUNCTIONS.

(1) Manage internal and external analytical efforts on systems and related subsystems as required in the development of timely and reliable S&TI on assigned Strategic Defense weapon systems and their command and control networks; interrelations between assigned weapon systems; and the vulnerabilities of systems elements in support of applicable DOD and national programs.

(2) Design, develop, and manage a scientific and technical intelligence program to synthesize, analyze, and report on the research, development, test, and evaluation efforts related to modified or new Strategic Air Defense systems through in-depth analysis of all-source

intelligence data and knowledge of related U.S. state of the art technologies.

(3) Design, develop, and manage a scientific and technical intelligence program to synthesize, analyze, and report on the research, development, test, and evaluation efforts related to modified or new Strategic Ballistic Missile Defense systems through in-depth analysis of all-source intelligence data and knowledge of related U.S. state of the art technologies.

(4) Design, develop, and manage a scientific and technical intelligence program to synthesize, analyze, and report on the research, development, test, and evaluation efforts related to modified or new Space Defense systems through in-depth analysis of all-source intelligence data and knowledge of related U.S. state of the art technologies.

(5) Design, develop, and maintain a comprehensive data base on foreign strategic defense objectives, related sciences and technologies, and related R&D test activities. Analyze data base as required to support system analysis, subsystem analysis, historical analysis and trends studies. Maintain a data base on parallel U.S. systems and technologies to be used in making mirror image assessments or projections. Assess overall effectiveness of foreign strategic defense in protection of various types of national assets.

(6) Design, develop, and manage a scientific and technical intelligence program to synthesize, analyze, and report on future Strategic Air Defense, Strategic Ballistic Missile Defense, and Space Defense weapon systems and technologies.

(7) Design, develop and manage a scientific and technical intelligence program to assess and report the present and future impact that foreign space programs and space assets will have on U.S. Army combat and support forces. Through in-depth analysis of all-source intelligence data, assist Army users in development of countermeasures to foreign space efforts. Similarly assess the viability of current and future foreign systems to destroy, disrupt or interface with U.S. Army space assets and assist in countermeasure development to neutralize such foreign systems.

(8) Design, develop and manage a scientific and technical intelligence program to synthesize, analyze and report on the research, development, test and evaluation efforts related to all types of directed energy weapons, to include lasers, particle beams, and radio-frequency and kinetic energy devices. This will be accomplished through in-depth analysis of all-source intelligence data and knowledge of related U.S. state of the art technologies.

(9) Assure S&TI support of those missions assigned to the Air Force and Navy for which MSIC has supporting responsibilities by virtue of expertise, supporting mission or information holdings.

(10) Design, develop, and manage support tasking to Air Force, Navy, and other Army production elements designated to have DOD support roles in the MSIC area of primary responsibility.

(11) Develop and manage a program for identifying and maintaining the technical requirements for collection and reporting of technical information on weapon systems and subsystems in the assigned areas of responsibility. Provide technical support in the integration of technical requirements for data into the national program for collection and reporting and serve as advisor in the establishment of national priorities.

(12) Provide technical support to develop comprehensive threat inputs to all DOD RDT&E programs delineating technical characteristics of systems, specific events or combinations thereof or specific items of systems having a particular impact on U.S. programs.

(13) Participate as member or consultant to intelligence committees, panels, and working groups at national and international levels.

(14) Manage the R&D efforts necessary to provide the analytical tools, techniques, and equipment necessary to support the analytical efforts required in performing the functions of the assigned mission.

(15) Manage the analytical efforts directed at evaluating existing and projected deployment and employment concepts in systems in the assigned mission areas.

(16) Manage the quick reaction and current reporting efforts in all assigned mission areas.

(17) Manage the analysis of foreign R&D and operational and test programs and events in assigned mission areas.

(18) Manage operations research and systems analysis studies essential to support the production of defensive and antispace system trends studies.

(19) Manage scientific and technical intelligence analytical efforts accomplished utilizing external assistance expertise to ensure effective technical direction and integration of results with in-house technical programs.

(20) Provide technical direction of FME programs in areas of responsibility.